



O T V A R C

AUG. SEPT. 1981

OREGON TUALATIN VALLEY AMATEUR RADIO CLUB

MEETING: Wednesday, Sept. 16. 6:15 for dinner.

7:00 for meeting. NORTHS CHUCKWAGON-BEAVERTON MALL

A very big thank you to Lee, K7TJR, for his great program on power supplies. We have had requests for technical show and tell and this one was without a doubt, technical. Some of you probably absorbed it all with no problem but not I... Lee knows his stuff and presents it well. Maybe we can have him back at a later date and let him get into showing some of the newer hams how to put one together. Power supplies that is. Thanks again Lee for a good one!!!!

SPEAKING OF THANKS

It was great of the members to respond to the call of DINNER!!! We had over 55 who partook of a very fine dinner menu. The roast beef was excellent as well as the other main course items. A thanks to all for getting us off the hook with Norths. Let's do it again this month. You get quite a lot for your money and the quality is very good. Get there early and have time to rag chew with your fellow members!!!

QUILTING BEE TIME

Once again, if any of you ladies (they won't allow men) want to take part in a fun type club function, give Janet a call at 645-1416 or ring up Arlene at 649-5113. We will be selling raffle tickets at the next meeting so if you have a mind to own a quilt worth at least \$250.00, be ready to take a chance. All proceeds are going into the treasury!!!

CLUB BADGES

IF YOU HAVE ONE PLEASE WEAR IT WHEN ATTENDING MEETINGS!!!!!!
LET'S GET BETTER ACQUAINTED!!!!!! THANKS IN ADVANCE.



SINK THE BISMARCK

GREAT fun and good practice. Randy, Roger and Don put on a good show for us. We have several experts in our group and several more who need a little more practice!! A couple of people were 90 degrees off the mark. A real neat exercise and easy to put together. A map, a bunny and a few PR type announcements and away we go-with intersecting co-ordinates all over Washington County. Sob!!

M
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WHERE
ARE
YOU??

It is a fact that 2/3's of all amateur radio operators in the country come from only 20% of the states. Note that California has twice as many amateurs as the next nearest state, New York. But that is not the whole story. The state with the most amateurs per square mile is New Jersey. They have 1.73 amateurs per square mile! (California has 1/3 amateur per square mile - or 1 amateur for every 3 square miles.) Even little Rhode Island with only 1754 amateurs has 1.44 hams per square mile.....more than 4 times the amateur density of California! Texas, which is in 3rd place in amateur population, is nearly last in amateur density! They have only 1 amateur for every 10 square miles. Dead last in amateur density is Alaska. (Only 1 amateur for every 369 square miles.)

RAFFLE NEWS

Another thanks to Portland Radio for helping us out on our raffle items. Also to Marty Brown for the ladies gift certificate that Susan Das won. The Fashion Factory in Aloha is being very helpful to our women members and guests.. Many thanks for the help to both Joe and Marty... Also to Randy for the Callbook....

THE BIG DONOR

CAN YOU GUESS WHO IN THE CLUB SAVES US \$99.00 PER MONTH????

Look in one of the back pages.

License Renewal Information

1) Attach a photocopy, or the original, of your license to the FCC Form 610 (available from ARRL hq.; s.a.s.e. please).

2) Mail to FCC, Box 1020, Gettysburg, PA 17325.

3) Retain copies of everything, if possible, as proof of filing before expiration. If you file before the license expiration date, you may continue to operate beyond the expiration date and until the new license arrives. After expiration, there is a one-year grace period under which you may still renew and keep your call sign without retesting, but you must wait until the new license arrives to operate. There is also a five-year grace period under which you may still renew; however, after the initial one-year period, you will be issued a new license with a new call sign. After this five year grace period expires, you must be re-examined for a new license. Normally, application should be made approximately 90 days before expiration;

however, renewal can be applied for at any time during the term of the license.

4) If you are simply modifying your license (change of address, for example), you must fill out the Form 610; a letter is no longer sufficient. Incidentally, your license will also be automatically renewed at this time.

5) If you have any questions or problems, drop a note to the Membership Services Department, ARRL.

OTVARC

EMERGENCY SERVICE VEHICLE

This may come as a surprise to most of you but Randy, KA7HJT, has purchased a utility trailer with his own money, a tower, with his own money and several other not so minor items.

The trailer will be equipped with everything that is needed for emergency work. This includes his new Icom solid state rig. The REAL kicker is that the unit will be painted and signed in the name of OTVARC. How is that for dedication folks?? A big hats off to Randy. More on this later.....

"RFI ON INCREASE."

THE PROBLEM OF RADIO FREQUENCY INTERFERENCE IS BECOMING INCREASINGLY SERIOUS. THE FCC IS DEEPLY CONCERNED. A 92 PAGE DOCUMENT COVERING THE SUBJECT WHICH CITES THE CB SERVICE AS THE GREATEST SOURCE OF INTERFERENCE AND ALSO MENTIONS THE RADIO AMATEUR ALSO IN A MUCH SMALLER WAY. AMONG PROPOSED SOLUTIONS ARE CHANGES IN TV STANDARDS, COMBINED TRANSMITTER/RECEIVER LIMITED LIABILITY, INCLUDING ADDING FILTERS, LIMITING ANTENNA HEIGHTS OR DIRECTION, EVEN QUIET HOURS, OR ALSO COMPENSATING THE PERSON INTERFERED WITH. ALSO IT HAS BEEN SUGGESTED THAT ALL THE BURDEN OF THE INTERFERENCE BE PLACED UPON THE INDIVIDUAL CAUSING IT. THE LATTER COULD BE OF DEEP CONCERN AND OBJECT-IONABLE. THE AMATEURS COULD SUFFER GREATLY WITH MORE RESTRICTIONS BEING PLACED UPON HIM. ~~XXXXX~~ SENATOR GOLDWATER'S BILL SENATE 929 WILL IF PASSED BY THE SENATE CAUSED THE MANUFACTURERS TO CONSTRUCT AND DESIGN MUCH BETTER FRONT ENDS FOR TV SETS AND INTERFERENCE REJECTION BY HOME ENTERTAINMENT DEVICES. GENERAL DOCKET 78-369 HAS BEEN ISSUED RELATIVE TO THE RFI PROBLEM. COMMENTS ARE DUE SEPTEMBER 30TH AND REPLY COMMENTS DUE NOVEMBER 16TH. THIS COULD BE A JONER FOR HAM RADIO: QUIET HOURS, RESTRICTED POWER, ANTENNA HEIGHTS, MONEY COMPENSATION, YE GAWDS!

WAGVPA

**AMATEUR RADIO STATION/OPERATOR
LICENSE (FORM 610)**

The FCC reported that its application for Amateur Radio Station/operator license (form 610) is not being completed correctly, resulting in many applications being returned. The Commission has noted confusion in completing items 2A through 2J. The 2A box applies for renewal of your license with no other changes. The renewal, if approved, will be for a five year period with no changes. The 2G box is checked if you wish to change your name on your license. Your previous name must be shown in the space provided. If you have a change of mailing address or station location, you must check 2H or 2I or both. Do not check 2A as this indicates no change. If you have changes and do not check blocks 2H and 2I or both, it will result in one of two actions being taken: the return of your application for clarification; or a license renewal with no changes would be issued but returned to the FCC as undeliverable, because of your change of address.

WHEW!! Got all that? Actually, if you have a form in front of you, it all makes sense. Courtesy of Lowell, W7NDH.

RELATIVITY: The length of a minute depends upon which side of the bathroom door you are on.

The tip you leave today would have bought a meal a few years ago.

A dirty book is seldom dusty.

Don't force it - get a larger hammer.



The "Considerate Operator's Frequency Guide"

Some frequencies that are generally recognized for certain modes or certain activities:

1800-1810 kHz	cw, DX calling	21.09-21.10 MHz	RTTY
1825-1830 kHz	"DX window" (no WVEs)	21.34 MHz	SSTV
3610-3630 kHz	RTTY	28.09-28.10 MHz	RTTY
3845 kHz	SSTV	28.68 MHz	SSTV
7090-7100 kHz	RTTY	28.30-29.50 MHz	Satellite downlinks
7171 kHz	SSTV	29.52-29.58 MHz	Repeater inputs
14.08-14.10 MHz	RTTY	29.60 MHz	FM simplex
14.23 MHz	SSTV	29.62-29.68 MHz	Repeater outputs

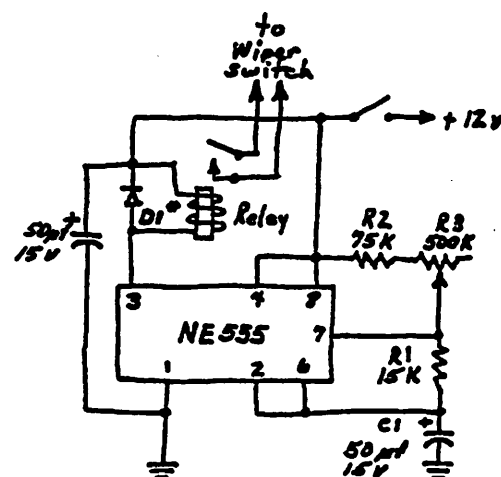
(In addition, on 20 meters in particular, the low end of the U.S. phone segment is reserved for DX, the high end for traffic, and ragchewing in between. The dividing lines are not definite, however.) Radio Control R/C Channels: 53.1, 53.2, 53.3, 53.4, 53.5, 53.6, 53.7 and 53.8 MHz.

DENTRON FILES PETITION IN BANKRUPTCY

Amateur radio manufacturer, Dentron Radio Company, Inc., of Stow, Ohio, has filed a Chapter XI (reorganization) petition under the National Bankruptcy Code on June 25, 1981, in U.S. Bankruptcy Court, Akron, Ohio - (Docket #581-1070). The business was started in 1974 by Dennis Had, K8KXK. It ultimately became a multi-million dollar sales producing firm before running into financial difficulties associated with their HF-200A. The 200 watt SSB/CW rig was their first solid state amateur transceiver. It was also the first product of Dentron's that was not successful and profitable. Import HF transceivers with more features at a similar price produced HF-200A sales far short of expectations. High inventory levels of parts and product caused the company a severe financial burden. Dentron merged with All Star Products, Inc., a leading air variable capacitor manufacturer on January 30, 1981. For years, Dentron advertised in the prized "Page 4" spot in QST. Let's all hope that Dentron emerges from Chapter XI in a strong financial position. It's sad, but it is a fact that the U.S. amateur community wants the most for their money and gives little consideration to supporting domestic makers. The same holds true in the support of local amateur radio dealers. It seems that we would rather buy from "the 800 number" out of state dealers and save a few dollars than support our own local ham outlets. Nothing is more discouraging to a dealer than to have you drink his coffee and buy elsewhere. The day may come when we have no domestic manufacturers and no neighborhood ham dealers! Give it some thought.

WINDSHIELD WIPER PAUSE CONTROL

Here is the diagram of a design for a windshield wiper pause control that is simpler and less expensive than most. It uses a low cost and versatile NE555 IC (by Signetics) as a free running oscillator with its frequency adjustable from one cycle every 3 seconds to one cycle every 30 seconds. R1 & C1 set the width of the negative going pulse and thus the period of time that power is applied to the wiper motor. The positive going pulse width is adjustable independently of the negative going pulse by the combination of R1, R2, R3, & C1. This sets the interval between active cycles. The NE555 drives the relay directly and can handle up to 100 mA, thus making it possible to use almost any inexpensive 12-volt dc relay.



* D1 - 600 PIV, 1 A

article by WD4LIM
Steve McHaney



NEWS

BULLETIN



DISCOUNT CARDS

Chuck, KA7DEW, is working on getting us discount buys at local businesses. If all goes well, we will have a club membership card with a list of dealers that will give us a discount on purchases. This could be from amateur gear to tires for your car. It should be interesting to see what comes up for us. The idea was Chuck's and of course the job of getting the dealers was dumped on the source!!! This will be a real help to the members and an added feature for the club as a whole. What more can we come up with to rebate your dues of \$5.00 per year?? Looks like most of us will come out ahead and that is what the club is all about. When the bandwagon is rolling it is the smart people who are on board....

BIKEATHON-HELP WANTED

Wes, K7WWG, is looking for volunteers to help out on a very worthy cause. The Diabetis Association of Oregon is holding their main fund raising event of the year and needs to have some good communication for the affair. The date is the 27th of September, a Sunday. Time is from 9 to 5, just like the movie!! We need help in Beaverton, Milwaukee, Oregon City, NE Portland, SE Portland, Lake Oswego, West Linn and Forest Grove. This is a Very worthy cause and if you can be of help call Wes at 649-3295.

MEMBER DOINGS

Bob, N7CTY, gave some auto patch help at Camp Cooper. The camp is a BSA summer long affair and they have no phones so Bob donated his services. No doubt impressed some of the Scouts!!

Randy, KA7HJT, got himself a brand new Icom low band mobile rig. He is perfectly satisfied that he didn't use an 800 number! Got what he wanted and is having a real ball with the rig.

The three musketeers, Roger, Randy and Ralph, are all putting up towers at the same time. Roger has one up now but is going from 60 feet to 80. They live about $\frac{1}{2}$ block apart.. WOW-wait till the neighbors lay an eyeball on this trip! Petitions and etc.. Oh well, such is the life of a ham....

OUTDATED CALLBOOKS?? BRING THEM TO A MEETING. HELP A NOVICE!

SEASIDE CONVENTION

For quite a few members, this will come as a surprise. A few weeks ago, the boys in Seaside were asked if they would like to co-sponsor the 1982 convention with OTVARC. After some time of thought they decided that it would be a great idea and at the last meeting all of this was divulged. The idea was to think about it for a month and at our upcoming meeting vote on whether or not to undertake the task. It will most likely not be a Northwest Division shindig like last June's but an Oregon State convention. One of the nice things about all this is that the guys at the beach have the experience of running a convention and will take care of all local details such as motel reservations, registrations, booth set up, convention station and antennas, signs, dinner catering and much more. Our functions will (??) be in the area of security, drawings, guest speaker, dealers and manufacturers, advertising, seminars and of course, much more. This sounds like a really BIG job but given the time that we have before June rolls around and the willingness of some very talented members, it should be a piece of cake. The VERY MOST important part of this is for some of us members to make a decision to get a little more involved in club activities. If enough do, we can undertake just about any activity we want. We have the doers; all we need is commitment. NOBODY is so busy with their avocation that they can't give an hour or two a month to be of help..... Sorry about getting carried away. Back to the subject. This could be a lot of fun and it would help to give OTVARC a good name with dealers and manufacturers so that when the time rolls around for a Washington County ham fair, we are credible. Any activity helps to strengthen the club and the Seaside trip would be a good one. IT IS UP TO YOU. We will vote on it at the upcoming meeting and see then which way the wind blows. Thanks.

THE BIG DONOR-ANSWER

Maybe some of you guessed that Dennis Boyd, KC7BE, is the BIG donor. Dennis does our Xerox work and at today's Jiffy Print prices, the newsletter would cost us exactly \$99.00 to copy. We will be going up another 25 copies next month so that will bring the amount up to \$115.50!!! If you are vague as to who Dennis is, he was doing some arrow shooting at field day and got his mug in the paper. He is a little on the quiet side but when it is copy time the lion roars. Many thanks for a very valuable service and it is hoped that you remain in amateur radio and the club-forever... Hats off to Dennis Boyd.....

BISMARCK WINNERS

Just about forgot! The straight shooters were: K7WWR, KA7KIS, W7ADM, N7CFM and K7RXV. Nice going guys and gal... How can a double duckie DF outdo an 11 element Cushcraft??? Willie gets the B----- Prize. Exactly 90 degrees off. Back to the drawing board Willie? Let's do it again!!!

FOR SALE-USED

Going to move sale: HUSTLER VERTICAL-5BTV WITH 50 ft RG8U COAX FOR \$100.00. HOME BREW 15m "MINI QUAD"-REAL HOT. \$35.00 HEATHKIT HD-1410 ELECTRONIC KEYSER-NEW. \$50.00. BLACK LEATHER CASTERED, SWIVEL, EXECUTIVE HI-BACK DX CHAIR. \$85.00. Contact Doc, W7ZVC at Norvac Electronics or call 644-1670...

For sale: SEARS PROGRAMMABLE-SCANNER (by cards). 5 BANDS AND ALL ARE FURNISHED. 30-50mhz 150-170mhz 450-470mhz 470-490mhz and 490-510mhz. Call Jack Derderian at 643-2325. \$225.00 or offer.

Giving away: Several hundred DPDT small slide switches. Randy, KA7HJT. 649-5066.

Don says, "Give nuclear waste to the Post Office, they'll either lose it or destroy it."

Confucius say, "One way to beat inflation is to feed only your favorite children."

A DRUG: A substance that if injected into a rat will give a scientific report.

ASSUMPTION: The father of all foul-ups.

The more things you own, the more you are owned by things.

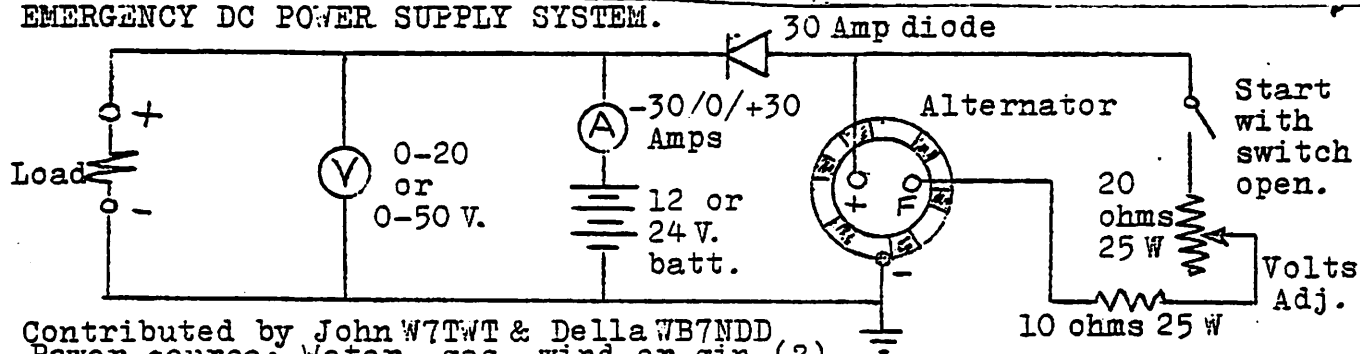
- PUBLIC SERVICE

Doc, KA7BSD and Bob, KB7CC furnished communications for a recent Shrine football game. Neat deal. Nice of you guys to help such a worthy cause. Actually, some people will do anything to get a good seat...

THE ULTIMATE-EXPERIENCE EXPERIMENT

NEW ANTENNA TECHNOLOGY? - The August issue of "Playboy" magazine (Page #59) with a "Zephyrhills, Florida" dateline tells about (and this is a direct quote) "A 79-year old amateur radio operator was found unconscious in his workshop under circumstances that a puzzled sheriff's department could only ascribe to accidental electrical shock. Deputies called to the scene reported that the victim had an 'unusual device' attached to his penis and connected to his transmitter by way of a voltage controlling rheostat." (End Quote). Floridians for decades have been trying to find the secret to the Fountain of Youth. Apparently it is not RF.

EMERGENCY DC POWER SUPPLY SYSTEM.



VIA: Clark County A.R.C.

ADS ADS ADS

Would like to thank last months advertisers for participating in our first attempt at commercialism. A very big help to the club and what is more important, it is hoped that the businesses that advertised found it beneficial to do so. If the club does not support this new fund raising activity, it will be for nothing.

As you can see, we have two new spaces filled this month. Both are offering us quality products at the right price. Give them and the club your support. Thanks....

CIRCULATION: 175 AD BLOCK: \$10.00 CALL AL: 640-5456 WB7SIC

L & C J ELECTRONICS

MANUFACTURERS OF
FINE ELECTRONIC EQUIPMENT

RT. 3, BOX 266-A
SHERWOOD, OR 97140

POWER SUPPLIES

5 AMP

10 AMP

20 AMP

TRANSMITTER

220 MHZ

RECEIVER

220 MHZ

2 METER FILTER

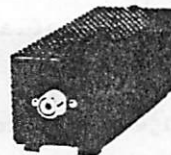
K7TJR
LEE STRAHAN
(503) 625-6927

WB7CHK
TERRY BIGGS
(503) 648-3687

PORTLAND RADIO SUPPLY

1234 S.W. STARK STREET • PORTLAND, OREGON 97205 • (503) 228-8647

300 WATTS
DRY DUMMY LOAD



MODEL MFJ-260

MFJ-260 REGULARLY \$26.99

\$19.95 WITH THIS AD

REMEMBER PORTLAND RADIO SUPPLY
WHEN YOU WANT:
*** PARTS *** EXPERIENCE *** SERVICE ***

*** KENWOOD TR-7850 IN STOCK ***

CUT ALONG THIS LINE

THE WATT SHOP 2262 Molalla Ave.

Oregon City
GRAND OPENING SPECIALS

R4 Drake-\$199.00 Swan Mark 1 2KW
linear-\$349.00 SB34 "loaded"-\$125.00
Kenwood TS 120 with ext. VFO, PS30,
mobile mount, AT 200 tuner, mic and
all MINT. \$950.00 Clipperton L
linear-\$399.00 MUCH MUCH MORE!!
We have Icom BP2-BP3-BP4 and CP1.....

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PHONE: 503/644-1025

We just received a full line of NYE
VIKING equipment. Keys, keyers,
SWR and wattmeters, phone patch and
the new MB 11 3000 watt tuner.
Come in and see our selection!!!

ATTENTION ALL ARRG MEMBERS

As of October 1 the auto-patch access codes will be changed. All paid-up members will be informed by mail in advance of the change. You will receive the new code system as well as any other information pertinent to the future doings of ARRG. The repeater has been altered somewhat so as to enable a code change with no cost involved nor great deal of engineering time. Why change the code? Somebody has to pay the phone bill and it is only fair that those who use a service help pay for it. Given some time, a sharp operator can figure out the access code and also their is a certain few who give out the code to friends. Some people do not take into account that to just maintain a repeater costs money. If you have a pickup truck, take a Saturday or Sunday and drive up to the top of South Saddle Mountain. Have a nice picnic and on your way back home fill up the old gas tank. Get the idea?? That, plus the fact that continual upgrades have been implemented and many more are planned, dictate that those who use are those who pay. Quite sure you understand....

LAST MINUTE FOR SALE

This is a very special ad in that to list everything would take a couple of pages. The seller is moving and has something like half a garage full of stuff to unload. Some of the equipment is Motorola! Only three items are listed due to space limitations. HEATHKIT MOBILE 2m RIG-HW 2036 Yaesu FT101 JOHNSON MATCHBOX
No prices on anything. Make an offer.
John Ryan, W7KEZ. Phone 649-5300

NEW MEMBERS

A VERY BIG WELCOME TO THE NEW MEMBERS: Mark Walker, W7CLU-Paul Schaff (MD) WB7BBG-Cliff Soderback, W7VVA-Roger May, N7BSL-Chuck Samuel, K7NWM. You will notice that an MD was featured. The club has an MD, an Optometrist, a Dentist and an Anesthesiologist. We also have an attorney to handle mal-practice suits. Yuk yuk.. Welcome aboard to you all and hope you enjoy the club and it's members.....

A THANKS FROM W6TRO

After last meeting ended, Ron, W6TRO, came up front and offered his thank you to the club for having such a neat Field Day that it inspired him to go get his general ticket. You have to understand that Ron has been hamming for about 20 years and has had a host of pushes and shoves to get upgraded. Very nice to think that the fun and fellowship of the club can have such an effect on a person. Thanks for making it known, Ron..



DX WORLD

Third-party traffic agreements

The United States has agreements with the following nations to permit the handling of third-party traffic via Amateur Radio. Only the valid countries are listed here.

North America

Canada (VE)	Honduras (HR)
Costa Rica (TI)	Jamaica (6Y)
Cuba (CM, CO)	Mexico (XE)
Dominican Republic (HI)	Nicaragua (YN)
El Salvador (YS)	Panama (HP)
Haiti (HH)	

South America

Argentina (LU)	Guyana (8R)
Bolivia (CP)	Paraguay (ZP)
Brazil (PY)	Peru (OA)
Chile (CE)	Trinidad and Tobago (9Y)
Colombia (HK)	Uruguay (ZP)
Ecuador (HC)	Venezuela (YV)

Europe

ITU Headquarters (4U1ITU)

Asia

Israel (4X, 4Z)
Jordan (JY)

Africa

Ghana (9G)
Liberia (EL)

Oceania

None

If the country is not on this list, do not handle any third-party traffic with that country. Incidentally, this does not have to be formal traffic. Asking an amateur in Germany to say hello to another amateur friend in that country the next time he meets him is technically a form of third-party traffic.

Burma (XZ)

Two stations are reported to be on from this one. The first one on, XZ5A, is the most active, with the second station, XZ9A, coming through also.

Be aware that not only is Burma available for the deserving; it's there for the patient ones. XZ5A works from lists and can be found on 14.225 MHz from 1100 UTC. It is a good idea to show up about two hours earlier to get on the list with whoever is the MC. The lists usually run several hours due to the tremendous demand. After all, it has been about 20 years since the last activity from this one. Also, check 21.275 MHz from 1700 UTC.

As to who runs the lists, look for DU9RG; Bill Bennett, W7PHO; and Lloyd Hilbun, W7RQ, and perhaps others. If you are one of the lucky ones to work either station, you may send your QSL card via Jin Fukuta, JA8BMK.

As of this date, do not submit your Burma QSL card to Newington for DXCC credit. Full documentation is reported to have been sent to the DXCC desk, but there is some question on the legality of the operation as it was authorized by the regional government and not from Rangoon.

Egypt (SU)

Lotfu Morsy El Mahdi, SU1AL is on regularly giving out contacts for the deserving. Look for him near 14.203 MHz from 0100 UTC. He has also been reported on 21.278 MHz during the same time period.

Karl Mayberry, W5JMM/SU is another active one from this country. Check the bands for Karl on 14.200 MHz from 0400 UTC, 21.280 or 21.370 MHz from 2200 UTC.

Niue Island DXpedition

Five members of the Northern California DX Club will be on DXpeditions to Niue Island, (ZK2), this October and November. This will include participation in both of CQ Magazine's World-Wi DX Contests.

Gary Cervo, WB6EXW and Rubin Hughes, WA6AHF will operate from Niue Island during the period 21 through 29 October, and Cam Pierce, K6RU, Bruno Bienenfeld, AA6AD, and Hiller Raamat, N6HR will be there from 25 November through 3 December.

Call signs are not known at this time, although licensing arrangements are complete. Operation will be on all bands, 10 through 160 meters, with emphasis on the lower bands during non-contest periods. QSL arrangements will be handled by the NCDXC at P.O. Box 608, Menlo Park, CA 94025.

UPGRADES

WA7QBI to Advanced

W6TRO to General

Congrats to Jim and Ron
any more ????

Jenning's corollary — The chance of the bread falling with the buttered side down is directly proportional to the cost of the carpet.

92-32 Vancouver auto-patch

It is possible that the auto-patch will be down for repairs and if so, it will take about two weeks to repair. As most of you 2m buffs know, the patch has been very difficult to access and plans are problems ASAP.....

the QRMers...



TEST 1-2-3 TEST...



I HATE NETS!!!



HIC...
SHORRY...



EX#8 YOU-
YOU !!! *8* !!!



THIS MONTHS PROGRAM

We are fortunate to have obtained, via Jim Woods, WOPUQ, a slide program from a club in Mo. that Jim was a member of. The program is presented by the Missouri Solar Energy Associates with funding by the Missouri Department of Natural Resources @ Division of Energy. The program has been previewed and is very well done and informative. As a matter of fact, it is downright amazing!! A number of different systems are shown and it appears that several lend themselves to an easy add on job to an existing home. Quite interesting but let YOU be the judge! Bring your Coppertone.

SPEAKING OF PROGRAMS

It has been asked on numerous occasions for member input in regard to programs and the results have not been to good. If you have an idea or know of someone who qualifies as a speaker, please let it be known. Most any subject, properly presented, could be of value to the club. Programs are a very big part of our success with club meeting attendance and general member interest. Finding topics that interest the majority is a very difficult chore and requires just about as much time as typing out this newsletter. On a couple of occasions, members have given a talk to TERAC and it was unknown that the potential program existed! Some of our best show and tells have been from our membership. With some help, this unwanted duty of entertaining the members could be made much simpler. Please speak up.....

another FOR SALE

Yaesu 101ZD with CW filter, speech processor, desk mic and Yaesu headphones. All in MINT cdx. \$650.00. Also a 14 AVQ vertical-10 thru 40. \$35.00. Jeff, KB7JU 636-4277

HAM CLASSES

Morse code: 5 to 20 wpm. Tues. 7 to 8 PM. 10 weeks at \$9.50.
Novice: Mondays 7 to 9 PM. 10 weeks at \$19.00.
General: Mondays 7 to 9 PM. 10 weeks at \$19.00.
Advanced and Extra: Mondays 7 to 9 PM. 10 weeks at \$19.00.

WHERE? Cedar Park Intermediate School.
STARTS: Week of September 28.

TALK IT UP!!!

SEE YOU AT THE MEETING.....

73 es. 88

WB7SIC

OTV ARC
P. O. BOX 5132
BEAVERTON, OR 97006

~~OTV ARC~~
~~P. O. BOX 5132~~
~~BEAVERTON, OR 97006~~

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